AMENDMENTS TO THE CLAIMS

The following is a complete, marked-up listing of revised claims with a status identifier in parenthesis, underlined text indicating insertions, and strike through and/or double-bracketed text indicating deletions.

LISTING OF CLAIMS

1. (Currently Amended) A computer readable medium having a data structure for managing random/shuffle reproduction of video data by a computer if read by the computer comprising:

a stream area storing at least one stream file including the video data;

a playlist area storing at least one playlist file including a plurality of playitems representing a playing interval of a clip of the video data, the playitem indicating a presentation start time and a presentation end time based on a time axis of the clip; and

a management area storing at least one title management information file, including at least one segment, the segment including ~~launching the playlist file by using~~ a command which launches ~~indicating~~ the playlist file, the title management information file being separate from the playlist file,

wherein the playing interval represented by the playitem is a unit to be randomized or shuffled during random/shuffle reproduction.

2. (Previously Presented) The computer readable medium of claim 1, wherein a title managed by the title management information file is a logical unit of the video data that is regarded as a reproduction unit by users.

3. (Previously Presented) The computer readable medium of claim 1, wherein the title management information file includes information on branch points at which reproduction path is divided during reproduction.

4. (Previously Presented) The computer readable medium of claim 3, wherein the branch point information has segments, each segment being assigned to each reproduction path.

5. (Previously Presented) The computer readable medium of claim 4, wherein the segments assigned to the different reproduction paths are associated with a plurality of distinct playlist files.

6. (Previously Presented) The computer readable medium of claim 5, wherein the plurality of distinct playlist files are associated with distinct clips or disjoint intervals of one clip.

7. (Previously Presented) The computer readable medium of claim 1, wherein a random/shuffle reproduction block is designated by the playlist file.

8. (Previously Presented) The computer readable medium of claim 7, wherein one playlist file that is designated as a random/shuffle reproduction block includes a plurality of playitems.

9. (Previously Presented) The computer readable medium of claim 1, wherein information on the random/shuffle reproduction block is stored in the title

management information file.

10. (Previously Presented) The computer readable medium of claim 1, wherein information on the random/shuffle reproduction block is stored in the playlist file.

11. (Previously Presented) The computer readable medium of claim 1, wherein the playitem is associated with a whole clip or a portion of clip based on clip information stored in a clip information area.

12. (Currently Amended) A method for recording a data structure for managing random/shuffle reproduction of video data on computer readable medium, the method comprising:

recording with a recording device at least one stream file including the video data in a stream area of the computer readable medium;

recording at least one playlist file in a playlist area of the computer readable medium, the playlist file including a plurality of playitems representing a playing interval of a clip of the video data, the playitem indicating a presentation start time and presentation end time based on a time axis of the clip; and

recording a title management information file in a management area of the computer readable medium, the title management information being separate from the playlist file, the title management information file including at least one segment, the segment including a command which launches ~~launching~~ the playlist file ~~by using a command indicating the playlist file~~,

wherein the playing interval represented by the playitem is a unit to be randomized or shuffled during random/shuffle reproduction.

13. (Currently Amended) A method for reproducing a data stream that has been recorded on a computer readable medium having a data structure for managing random/shuffle reproduction of video data thereon, the method comprising:

~~Reproducing~~ reproducing with a reproducing device at least one title management information file including at least one segment from a management area of the computer readable medium, the title management information file including at least one segment, the segment including a command which launches ~~launching~~ a playlist file ~~by using a command indicating the playlist file~~;

reproducing the playlist file launched by the segment from a playlist file area of the computer readable medium, the playlist file being separate from the title management information file, the playlist file including a plurality of playitems representing a playing interval of a clip of the video data, the playitem indicating a presentation start time and a presentation end time based on a time axis of the clip;

reproducing the clip indicated by the playlist file from a stream area of the computer readable medium;

wherein the playing interval represented by the playitem is a unit to be randomized or shuffled during random shuffle reproduction.

14. (Currently Amended) An apparatus for recording a data structure for managing random/shuffle reproduction of video data on a disc computer readable medium, comprising:

a recording device configured to record a stream file including the video data in a stream area of the computer readable medium; and

a controller, operably coupled to the reproducing device to record the video data

on the computer readable medium, wherein the controller controls the recording device to record at least one playlist file in a playlist area of the computer readable medium, the playlist file including a plurality of playitems, the playitem representing a playing interval of a clip of the video data, the playitem indicating a presentation start time and a presentation end time based on a time axis of the clip, the playitems in the playlist being a unit to be randomized or shuffled during random/shuffle reproduction, and the controller controls the recording device to record a title management information file in a management area of the computer readable medium, the title management file being separate from the playlist file, the title management information file including at least one segment, the segment including a command which launches ~~launching~~ a playlist file ~~by using a command indicating the playlist file~~.

15. (Currently Amended) An apparatus for reproducing a data stream recorded on a computer readable medium having a data structure for managing random/shuffle reproduction of video data thereon, comprising:

a reproducing device configured to reproduce a stream file including the video data from a stream area of the computer readable medium; and

a controller operably coupled to the reproducing device to reproduce a title management information file including at least one segment, the segment including a command which launches ~~launching~~ a playlist file ~~by using a command indicating the playlist file~~, from a management area of the computer readable medium, to reproduce a playlist file launched by the segment from a playlist area of the computer readable medium, the playlist file being separate from the title management information file, the playlist file including a plurality of playitems representing a playing interval of a clip of

the video data, the playitem indicating a presentation start time and a presentation end time on a time axis of the clip and to reproduce the clip indicated by the playlist file the clip from a stream area on the computer readable medium wherein the playing interval represented by the playitem is a unit to be randomized or shuffled during the random/shuffle reproduction.

16. – 20. (Cancelled)

21. (Previously Presented) The method of claim 12, further comprising regarding a title that is a logical unit of data managed by the title management information file as a reproduction unit.

22. (Previously Presented) The method of claim 12, further comprising dividing information on branch points in the title management file during reproduction.

23. (Previously Presented) The method of claim 12, further comprising designating a random/shuffle reproduction by the playlist file.

24. (Previously Presented) The method of claim 12, further comprising storing information on the random/shuffle reproduction block in the title management information file or in the playlist file.

25. (Previously Presented) The method of claim 12, further comprising associating the playitem with a whole clip or a portion of clip based on clip information stored in a clip information area.

26. (Previously Presented) The method of claim 13, further comprising regarding a title that is a logical unit of data managed by the title management information file as a reproduction unit.

27. (Previously Presented) The method of claim 13, further comprising dividing information on branch points in the title management file during reproduction.

28. (Previously Presented) The method of claim 13, further comprising designating a random/shuffle reproduction by the playlist file.

29. (Previously Presented) The method of claim 13, further comprising storing information on the random/shuffle reproduction block in the title management information file or in the playlist file.

30. (Previously Presented) The method of claim 13, further comprising associating the playitem with a whole clip or a portion of clip based on clip information stored in a clip information area.

31. (Previously Presented) The apparatus of claim 14, wherein a title managed by the title management information file is a logical unit of video data that is regarded as a reproduction unit by users.

32. (Previously Presented) The apparatus of claim 14, wherein the controller controls the recording device to record information on branch points at which

reproduction path is divided during reproduction in the title management information file.

33. (Previously Presented) The apparatus of claim 14, wherein a random/shuffle reproduction block is designated by the playlist file.

34. (Previously Presented) The apparatus of claim 14, wherein the controller controls the recording device to record information on a random/shuffle reproduction block in the title management information file or in the playlist file.

35. (Previously Presented) The apparatus of claim 14, wherein the controller controls the recording device to record the playitem associated with a whole clip or a portion of clip based on clip information stored in a clip information area.

36. (Previously Presented) The apparatus of claim 15, wherein a title managed by the title management information file is a logical unit of video data that is regarded as a reproduction unit by users.

37. (Previously Presented) The apparatus of claim 15, wherein the controller controls the reproducing device to reproduce information on branch points at which reproduction path is divided during reproduction included in the title management information file.

38. (Previously Presented) The apparatus of claim 15, wherein a random/shuffle reproduction block is designated by the playlist file.

39. (Previously Presented) The apparatus of claim 15, wherein the controller controls the reproducing device to reproduce information on the random/shuffle reproduction block stored in the title management information file or in the playlist file.

40. (Previously Presented) The apparatus of claim 15, wherein the controller controls the reproducing device to reproduce the playitem associated with a whole clip or a portion of clip based on clip information stored in a clip information area.

41. (Previously Presented) The apparatus of claim 14, further comprising a source packetizer configured to packetize the video data.

42. (Previously Presented) The apparatus of claim 15, further comprising a source depacketizer configured to depacketize a packet of the video data.

<End of Claims Listing>